

This Page Is Inserted by IFW Operations  
and is not a part of the Official Record

## **BEST AVAILABLE IMAGES**

Defective images within this document are accurate representations of the original documents submitted by the applicant.

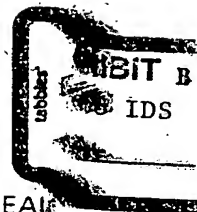
Defects in the images may include (but are not limited to):

- BLACK BORDERS
- TEXT CUT OFF AT TOP, BOTTOM OR SIDES
- FADED TEXT
- ILLEGIBLE TEXT
- SKEWED/SLANTED IMAGES
- COLORED PHOTOS
- BLACK OR VERY BLACK AND WHITE DARK PHOTOS
- GRAY SCALE DOCUMENTS

**IMAGES ARE BEST AVAILABLE COPY.**

**As rescanning documents *will not* correct images,  
please do not report the images to the  
Image Problem Mailbox.**

# PATENT COOPERATION TREATY



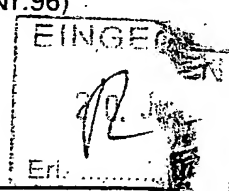
## PCT NOTIFICATION OF TRANSMITTAL OF COPIES OF TRANSLATION OF THE INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Rule 72.2)

From the INTERNATIONAL BUREAU

To:

PFENNING, MEINIG & PARTNER  
(Zusammenschluss-Nr.96)  
Mozartstrasse 17  
80336 München  
Germany



Date of mailing (day/month/year) 04 June 2003 (04.06.03)	
Applicant's or agent's file reference 99/35539-IVV	IMPORTANT NOTIFICATION
International application No. PCT/EP01/06419	International filing date (day/month/year) 06 June 2001 (06.06.01)
Applicant FRAUNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V. et al	

### 1. Transmittal of the translation to the applicant.

The International Bureau transmits herewith a copy of the English translation made by the International Bureau of the international preliminary examination report established by the International Preliminary Examining Authority.

### 2. Transmittal of the copy of the translation to the elected Offices.

The International Bureau notifies the applicant that copies of that translation have been transmitted to the following elected Offices requiring such translation:

CA,CN,JP,KP,KR,US

The following elected Offices, having waived the requirement for such a transmittal at the time of election, will receive copies of that translation from the International Bureau only upon their request:

AP,EA,EP,AE,AG,AL,AM,AT,AU,AZ,BA,BB,BG,BR,BY,BZ,CH,CO,CR,CU,CZ,DK,DM,DZ,EG,FI,GB,GD,GE,GH,GM,HR,HU,ID,IL,IN,IS,KE,KG,KZ,LC,LK,LR,LS,LT,LU,LV,MA,MD,MG,MW,MX,MZ,NO,NZ,PL,PT,RO,RU,SD,SE,SG,SI,SK,SL,TJ,TM,TR,TT,TZ,UA,UG,UZ,VN,YU,OA

### 3. Reminder regarding translation into (one of) the official language(s) of the elected Office(s).

The applicant is reminded that, where a translation of the international application must be furnished to an elected Office, that translation must contain a translation of any annexes to the international preliminary examination report.

It is the applicant's responsibility to prepare and furnish such translation directly to each elected Office concerned (Rule 74.1). See Volume II of the PCT Applicant's Guide for further details.

The International Bureau of WIPO 34, chemin des Colombettes 1211 Geneva 20, Switzerland	Authorized officer A. ZOLTANSKI (Fax)
Facsimile No. (41-22) 740.14.35	Telephone No. (41-22) 338 8608

Translation

PATENT COOPERATION TREATY

PCT

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

(PCT Article 36 and Rule 70)

Applicant's or agent's file reference 99/35539-IVV	<b>FOR FURTHER ACTION</b> See Notification of Transmittal of International Preliminary Examination Report (Form PCT/IPEA/416)	
International application No. PCT/EP01/06419	International filing date (day/month/year) 06 June 2001 (06.06.01)	Priority date (day/month/year) 11 August 2000 (11.08.00)
International Patent Classification (IPC) or national classification and IPC C08J 11/08		
UNHOFER-GESELLSCHAFT ZUR FÖRDERUNG DER ANGEWANDTEN FORSCHUNG E.V.		

<p>1. This international preliminary examination report has been prepared by this International Preliminary Examining Authority and is transmitted to the applicant according to Article 36.</p> <p>2. This REPORT consists of a total of <u>5</u> sheets, including this cover sheet.</p> <p><input checked="" type="checkbox"/> This report is also accompanied by ANNEXES, i.e., sheets of the description, claims and/or drawings which have been amended and are the basis for this report and/or sheets containing rectifications made before this Authority (see Rule 70.16 and Section 607 of the Administrative Instructions under the PCT).</p> <p>These annexes consist of a total of <u>5</u> sheets.</p>	
<p>3. This report contains indications relating to the following items:</p> <p>I <input checked="" type="checkbox"/> Basis of the report</p> <p>II <input type="checkbox"/> Priority</p> <p>III <input type="checkbox"/> Establishment of opinion with regard to novelty, inventive step and industrial applicability</p> <p>IV <input type="checkbox"/> Unity of invention</p> <p>V <input checked="" type="checkbox"/> Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; reasons and explanations supporting such statement</p> <p>VI <input type="checkbox"/> Certain documents cited</p> <p>VII <input type="checkbox"/> Certain defects in the international application</p> <p>VIII <input type="checkbox"/> Certain observations on the international application</p>	

Date of submission of the demand 22 January 2002 (22.01.02)	Date of completion of this report 27 November 2002 (27.11.2002)
Name and mailing address of the IPEA/EP	Authorized officer
Facsimile No.	Telephone No.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP01/06419

## I. Basis of the report

## 1. With regard to the elements of the international application:\*

- ☐ the international application as originally filed
- ☒ the description:  
pages 1-19, as originally filed  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☒ the claims:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, as amended (together with any statement under Article 19  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_, filed with the demand  
pages 1-22, filed with the letter of 16 October 2002 (16/10/2002)
- ☒ the drawings:  
pages 1/2, 2/2, as originally filed  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_
- ☐ the sequence listing part of the description:  
pages \_\_\_\_\_, as originally filed  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_, filed with the demand  
pages \_\_\_\_\_, filed with the letter of \_\_\_\_\_

## 2. With regard to the language, all the elements marked above were available or furnished to this Authority in the language in which the international application was filed, unless otherwise indicated under this item.

These elements were available or furnished to this Authority in the following language \_\_\_\_\_ which is:

- ☐ the language of a translation furnished for the purposes of international search (under Rule 23.1(b)).
- ☐ the language of publication of the international application (under Rule 48.3(b)).
- ☐ the language of the translation furnished for the purposes of international preliminary examination (under Rule 55.2 and/or 55.3).

## 3. With regard to any nucleotide and/or amino acid sequence disclosed in the international application, the international preliminary examination was carried out on the basis of the sequence listing:

- ☐ contained in the international application in written form.
- ☐ filed together with the international application in computer readable form.
- ☐ furnished subsequently to this Authority in written form.
- ☐ furnished subsequently to this Authority in computer readable form.
- ☐ The statement that the subsequently furnished written sequence listing does not go beyond the disclosure in the international application as filed has been furnished.
- ☐ The statement that the information recorded in computer readable form is identical to the written sequence listing has been furnished.

4. ☐ The amendments have resulted in the cancellation of:

- ☐ the description, pages \_\_\_\_\_
- ☐ the claims, Nos. \_\_\_\_\_
- ☐ the drawings, sheets/fig. \_\_\_\_\_

5. ☒ This report has been established as if (some of) the amendments had not been made, since they have been considered to go beyond the disclosure as filed, as indicated in the Supplemental Box (Rule 70.2(c)).\*\*

\* Replacement sheets which have been furnished to the receiving Office in response to an invitation under Article 14 of the PCT (as referred to in this report as "originally filed" and are not annexed to this report since they do not contain amendments under Rule 70.16 and 70.17).

\*\* Any replacement sheet containing such amendments must be referred to under item 1 and annexed to this report.

**I. Basis of the report**

1. This report has been drawn on the basis of *(Replacement sheets which have been furnished to the receiving Office in response to a communication under Article 14 are referred to in this report as "originally filed" and are not annexed to the report since they do not contain claims.)*

Continuation of Box I.5

**PCT RULE 70.2**

The detailed definition in the new Claim 1 that it relates to a method in which the precipitating agent is added in stages, goes beyond the content of the application as originally filed. This embodiment is published only in the third example with reference to separation and recovery of PVC from its organic solution by means of ethanol and therefore cannot readily be applied to the treatment of other target polymer solutions.

Consequently, the international preliminary examination report refers to the originally filed Claims 1-27.

## INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application no.

PCT/EP 01/0643

## V. Reasoned statement under Article 35(2) with regard to novelty, inventive step or industrial applicability; citations and explanations supporting such statement

## 1. Statement

Novelty (N)	Claims	6, 7, 13, 24, 27
	Claims	1-5, 8-12, 14-21, 25, 26
Inventive step (IS)	Claims	
	Claims	1-27
Industrial applicability (IA)	Claims	1-27
	Claims	

## 2. Citations and explanations

Reference is made to the following documents:

D1: DE-A-22 01 101  
D2: US-A-4 071 479  
D3: US-A-3 912 664  
D4: DE-A-26 07 345  
D5: EP-A-0 949 293.

CLAIM 1: the target polymer is dissolved together with additives in a solvent I, precipitated by means of a solvent II, whilst the additives remain in dissolved form and the precipitated target polymer and at least one additive are separated (recovery of polymers AND additives).

D1-D3 publish similar methods for the recovery of PVC plasticisers:

D1: see Claims 1-10 and Examples 1-21.  
D2: see Claim 1 and Example 1.  
D3: see Claims 1, 9 and 14.

D4 publishes a similar method for the separation of PET and dyestuffs (Claim 8; Examples 2 and 3).

INTERNATIONAL PRELIMINARY EXAMINATION REPORT

International application No.

PCT/EP 01/0649

D5 describes a method for the separation and recovery of thermoplastic resins and flame retardants as a result of dissolution in a solvent, precipitation of the resin and separation of the flame retardant from the solution (Claim 2 and Example 7).

Since D1-D5 describe all the technical features of the original Claims 1-5, 8-12, 14-21, 25 and 26 of the present application, the subject matter of these claims therefore cannot be regarded as novel (PCT Article 33(1) and (2)).

Furthermore, the application does not involve an inventive step (PCT Article 33 (1) and (3)) by virtue of the technical features in documents D1-D5.